RAW SEQUENCE LISTING PATENT APPLICATION US/08/466,343B

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DATE: 12/17/96 TIME: 11:03:58

INPUT SET: S14433.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2	(1) 0	eneral Information:
3 4	(I) G	eneral information:
5 6	(i)	APPLICANT: LI, Yi
7 8 9	(ii)	SEQUENCE LISTING Corrected Diskers APPLICANT: LI, Yi TITLE OF INVENTION: Human G-Protein Chemokine Receptor HSATU68
10 11	(iii)	NUMBER OF SEQUENCES: 9
12 13	(iv)	CORRESPONDENCE ADDRESS:
14 15		(A) ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein
16		(B) STREET: 6 Becker Farm Road
17 18		(C) CITY: Roseland (D) STATE: NJ
19		(E) COUNTRY: USA
20		(F) ZIP: 07068-1739
21		, ————————————————————————————————————
22	(v)	COMPUTER READABLE FORM:
23		(A) MEDIUM TYPE: Floppy disk
24		(B) COMPUTER: IBM PC compatible
25		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
26		(D) SOFTWARE: WordPerfect 5.1, Dos Text File
27		
28	(Vi)	CURRENT APPLICATION DATA:
29		(A) APPLICATION NUMBER: 08/466,343
30		(B) FILING DATE: 6 JUN 1996
31 32		(C) CLASSIFICATION:
33	/wiii\	ATTORNEY/AGENT INFORMATION:
34	(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(A) NAME: MULLINS, J.G.
35		(B) REGISTRATION NUMBER: 33,073
36		(C) REFERENCE/DOCKET NUMBER: 325800-449
37		(O) MILDRIDA BOOKET NOMBER: S25000 119
38	(ix)	TELECOMMUNICATION INFORMATION:
39	(/	(A) TELEPHONE: 201-994-1700
40		(B) TELEFAX: 201-994-1744
41		
42	(2) INFOR	RMATION FOR SEQ ID NO:1:
43		
44	(i)	SEQUENCE CHARACTERISTICS:
45		(A) LENGTH: 1414 BASE PAIRS
46		(B) TYPE: NUCLEIC ACID

RAW SEQUENCE LISTING PATENT APPLICATION US/08/466,343B

DATE: 12/17/96 TIME: 11:04:01

														I.	NPUT	SET: SI	4433.raw	,
47	(c) STRANDEDNESS: SINGLE (D) TOPOLOGY: LINEAR (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: are or														11 1	wite:		
48 49			(D) T	OPOL	OGY:	LI	NEAR					p		20 x	~ /\ .	1 Acg	برا
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57 58	TTAATTCAAT GTAGACATCT ATGTAGGCAA TTAAAAACCT ATTGATGTAT AAAACAGTTT														180	-		
59	GCATTCATGG AGGGCAACTA AATACATTCT AGGACTTTAT AAAAGATCAC TTTTTATTTA													240				
60	GENTIERIUS ROGGERACIA ARIACATICI ROGRETITAI RAMAGRICAE TITTTATTA												210					
61	TGC	ACAG	GGT (GGAA	CAAG	ATG	GAT	TAT	CAA	GTG	TCA	AGT	CCA	ATC	TAT	GAC	291	
62		all	not	و مه	عدد_	Met	Asp	Tyr	Gln	۷al	Ser	Ser	Pro	Ile	Tyr	Asp		
63	•					, ,)					75			
64															AAG		339	
65	Ile	Asn	Tyr		Thr	Ser	Glu	Pro			Lys	Ile	Asn	Val	Lys	Gln		
66 67	» ma	aa 8	000	15	OMO.	ama	aam	000	2000		ma a	аша	ama	mma	a ma	mmm	207	
68															ATC Ile		387	
69	116	Ald	AIG	ALG	neu	Dea	FIO	FIO	Deu	ı yı	Ser	Leu	Val	rne	116	FIIC		
70	GGT	TTT	GTG	GGC	AAC	ATG	CTG	GTC	ATC	CTC	ATC	CTG	ATA	AAC	TGC	CAA	435	
71	Gly	Phe	Val	Gly	Asn	Met	Leu	Val	Ile	Leu	Ile	Leu	Ile	Asn	Cys	Gln		
72	-			_											-			
73															ATC		483	
74	Arg	Leu	Glu	Ser	Met	Thr	Asp	Ile	Tyr	Leu	Leu	Asn	Leu	Ala	Ile	Ser		
75 76	a.a	ama	mmm	mma	amm	amm	3 am	ama	~~~	mma	maa	a a m	~~~		aam		5 2 3	
· 77															GCT Ala		531	
78	Asp	пеа	FIIE	FILE	Leu	nea	1111	Val	PIO	FILE	пр	Ala	urs	ıyı	ATG	MIG		
79	GCC	CAG	TGG	GAC	TTT	GGA	AAT	ACA	ATG	TGT	CAA	CTC	TTG	ACA	GGG	CTC	579	
80															Leu			
81				_						_						_		
82															CTG		627	
83	Phe	Ile	Gly	Phe	Phe	Ser	Gly	Ile	Phe	Phe	Ile	Ile	Gln	Leu	Leu	Thr		
84	a ma	a a m	3.00	m > 0	ama	oom.	3 ma	ama	~ · ·	aam	ama	mmm	aam	mma	AAA	000	675	
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88	AGG	ACG	GTC	ACC	ттт	GGG	GTG	GTG	ACA	AGT	GTG	ATC	ACT	TGG	GTG	GTG	723	
89															Val			
90	-					-								-				
91															CAA		771	
92	Ala	Val	Phe	Ala	Ser	Leu	Pro	Gly	Ile	Ile	Phe	Thr	Arg	Ser	Gln	Lys		
93		aam	am.	a	m * ~	100	m~~	100	ma=	a	mes	ac :	m	.	a	mar	010	
94 95															CAG		819	
96	GIU	сту	ьeu	utz	TAL	TILL	cys	ser.	De L	птр	rne	PIO	TÀL	ser	Gln	TAT		
97	CAA	TTC	TGG	AAG	ААТ	TTC	CAG	ACA	ΤΤΔ	AAG	ΑΤΑ	GTC	ATC	ТТС	GGG	CTG	867	
98															Gly			
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/466,343B

DATE: 12/17/96 TIME: 11:04:05

											•			II.	VPUT	SET: SI	14433.raw
100	GTC	CTG	CCG	CTG	CTT	GTC	ATG	GTC	ATC	TGC	TAC	TCG	GGA	ATC	CTA	AAA	915
101					Leu												
102										-	-		_			-	
103	ACT	CTG	CTT	CGG	TGT	CGA	AAT	GAG	AAG	AAG	AGG	CAC	AGG	GCT	GTG	AGG	963
104	Thr	Leu	Leu	Arg	Cys	Arg	Asn	Glu	Lys	Lys	Arg	His	Arg	Ala	Val	Arg	
105									_	_	_		•				
106	CTT	ATC	TTC	ACC	ATC	ATG	ATT	GTT	TAT	TTT	CTC	TTC	TGG	GCT	CCC	TAC	1011
107	Leu	Ile	Phe	Thr	Ile	Met	Ile	Val	Tyr	Phe	Leu	Phe	Trp	Ala	Pro	Tyr	
108									_							-	
109	AAC	ATT	GTC	CTT	CTC	CTG	AAC	ACC	TTC	CAG	GAA	TTC	TTT	GGC	CTG	AAT	1059
110	Asn	Ile	Val	Leu	Leu	Leu	Asn	Thr	Phe	Gln	Glu	Phe	Phe	Gly	Leu	Asn	
111											Car.	*		_			
112	AAT	TGC	AGT	AGC	TCT	AAC	AGG	TTG	GAC	CAA	GCT	ATG	CAG	GTG	ACA	GAG	1107
113	Asn	Cys	Ser	Ser	Ser	Asn	Arg	Leu	Asp	Gln	Ala	Met	Gln	Val	Thr	Glu	
114																	
115					ACG												1155
116	Thr	Leu	Gly	Met	Thr	His	Cys	Cys	Ile	Asn	Pro	Ile	Ile	Tyr	Ala	Phe	
117							,										
118					TTC												1203
119	Val	Gly	Glu	Lys	Phe	Arg	Asn	Tyr	Leu	Leu	Val	Phe	Phe	Gln	Lys	His	
120																	
121					TTC												1251
122	тте	Ата	ràs	Arg	Phe	cys	гàг	cys	Cys	Ser	IIe	Phe	GIn	GIN	GTu	Ala	
123	000	030	aa 3	aa .	3.00	ma x	amm	mag		aa .	шаа	. am	~~~	~~~	a.a	a	1000
124 125					AGC												1299
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129		501		-													
130	TGC	CATO	GC I	TAG	סדידידי	A TA	CAC	AGCCI	r ggg	CTG	GGG	TGGC	GTGG	AA C	AGGT	CTTTT	1414
131																	
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133	(2)	INFO	RMAT	NOI	FOR	SEQ	ID N	10:2:	3								
134					CHAF												
135		((A) I	ENG	TH: 3	52 A	MINC	ACI	DS.								
136		(B) 1	YPE:	AM.	INO	ACII)									
137		· '` (C) S	TRAN	IDEDN	IESS:											
138		(D) 1	OPOI	OGY:	LI	NEAF	₹								•	
139																	
140	((ii)	MOLE	CULE	TYP	E:	PROT	EIN									
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142	((X1)	SEQU	ENCE	DES	CRIF	TION	I: S	SEQ I	D NC):2:						
143		•		-7		_	_	_		_	_		_	_	_		
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149					20					25					30		
150	Ara	I.en	Leu	Pro	Pro	T.eu	ጥህጉ	Ser	T.em	Val	Dha	Tla	Dha	G] v	Pho		
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/466,3438 DATE: 12/17/96 TIME: 11:04:08

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															SET: S1443
Val	Gly	Asn	Met	Leu 50	Val	Ile	Leu	Ile	Leu 55		Asn	Cys	Gln	Arg 60	
Leu	Glu	Ser	Met	Thr 65	Asp	Ile	Tyr	Leu	Leu 70	Asn	Leu	Ala	Ile	Ser 75	
Asp	Leu	Phe	Phe	Leu 80	Leu	Thr	Val	Pro	Phe 85	Trp	Ala	His	Tyr	Ala 90	
Ala	Ala	Gln	Trp	Asp 95	Phe	Gly	Asn	Thr	Met 100			Leu	Thr	Gly 105	
Leu	Tyr	Phe	Ile	Gly 110	Phe	Phe	Ser	Gly	Ile 115	Phe	Phe	Ile	Ile	Gln 120	
Leu	Leu	Thr	Ile	Asp 125	Arg	туг	Leu	Ala	Ile 130	Val	His	Ala	Val	Phe 135	
Ala	Leu	Lys	Ala	Arg 140	Thr	Val	Thr	Phe	Gly 145	Val	Val	Thr	Ser	Val 150	
Ile	Thr	Trp	Val	Val 155	Ala	Val	Phe	Ala	Ser 160	Leu	Pro	Gly	Ile	Ile 165	
Phe	Thr	Arg	Ser	Gln 170	Lys	Glu	Gly	Leu	His 175	Tyr	Thr	cys	Ser	Ser 180	
His	Phe	Pro	Туr	Ser 185	Gln	Tyr	Gln	Phe	Trp 190	Lys	Asn	Phe	Gln	Thr 195	
Leu	Lys	Ile	Val	Ile 200	Leu	Gly	Leu	Val	Leu 205	Pro	Leu	Leu	Val	Met 210	
Val	Ile	Cys	Туr	Ser 215	Gly	Ile	Leu	Lys	Thr 220	Leu	Leu	Arg	Cys	Arg 225	
Asn	Glu	Lys	Lys	Arg 230	His	Arg	Ala	Val	Arg 235	Leu	Ile	Phe	Thr	Ile 240	
Met	Ile	Val	Tyr	Phe 245	Leu	Phe	Trp	Ala	Pro 250	Tyr	Asn	Ile	Val	Leu 255	
Leu	Leu	Asn	Thr	Phe 260	Gln	Glu	Phe	Phe	Gly 265	Leu	Asn	Asn	Cys	Ser 270	
Ser	Ser	Asn	Arg	Leu 275	Asp	Gln	Ala	Met	Gln 280	Val	Thr	Glu	Thr	Leu 285	
Gly	Met	Thr	His	Cys 290	Cys	Ile	Asn	Pro	Ile 295	Ile	Tyr	Ala	Phe	Val 300	
Gly	Glu	Lys	Phe	Arg 305	Asn	Tyr	Leu	Leu	Val 310	Phe	Phe	Gln	Lys	His 315	
	Leu Asp Ala Leu Ala Ile Phe His Leu Val Asn Met Leu Ser Gly	Leu Glu Asp Leu Ala Ala Leu Tyr Leu Leu Ala Leu Ile Thr Phe Thr His Phe Leu Lys Val Ile Asn Glu Met Ile Leu Leu Ser Ser Gly Met	Leu Glu Ser Asp Leu Phe Ala Ala Gln Leu Tyr Phe Leu Leu Thr Ala Leu Lys Ile Thr Trp Phe Thr Arg His Phe Pro Leu Lys Ile Val Ile Cys Asn Glu Lys Met Ile Val Leu Leu Asn Ser Ser Asn Gly Met Thr	Leu Glu Ser Met Asp Leu Phe Phe Ala Ala Gln Trp Leu Tyr Phe Ile Leu Leu Thr Ile Ala Leu Lys Ala Ile Thr Trp Val Phe Thr Arg Ser His Phe Pro Tyr Leu Lys Ile Val Val Ile Cys Tyr Asn Glu Lys Lys Met Ile Val Tyr Leu Leu Asn Thr Ser Ser Asn Arg Gly Met Thr His	Leu Glu Ser Met Three So Asp Leu Phe Phe Leu So Ala Ala Gln Trp Asp 95 Leu Tyr Phe Ile Gly 110 Leu Leu Thr Ile Asp 125 Ala Leu Lys Ala Arg 140 Ile Thr Trp Val Val 155 Phe Thr Arg Ser Gln 170 His Phe Pro Tyr Ser 185 Leu Lys Ile Val Ile 200 Val Ile Cys Tyr Ser 215 Asn Glu Lys Lys Arg 230 Met Ile Val Tyr Phe 245 Leu Leu Asn Thr Phe 260 Ser Ser Asn Arg Leu 275 Gly Met Thr His Cys 290	Leu Glu Ser Met Thr Asp 65 Asp Leu Phe Phe Leu Leu 80 Ala Ala Gln Trp Asp Phe 95 Leu Tyr Phe Ile Gly Phe 110 Leu Leu Thr Ile Asp Arg 125 Ala Leu Lys Ala Arg Thr 140 The Thr Trp Val Val Ala 155 Phe Thr Arg Ser Gln Lys 170 His Phe Pro Tyr Ser Gln 185 Leu Lys Ile Val Ile Leu 200 Val Ile Cys Tyr Ser Gly 215 Asn Glu Lys Lys Arg His 230 Met Ile Val Tyr Phe Leu 245 Leu Leu Asn Thr Phe Gln Ser Ser Asn Arg Leu Asp 275 Gly Met Thr His Cys Cys 290 Gly Glu Lys Phe Arg Asn	Leu Glu Ser Met Thr Asp Ile Asp Leu Phe Phe Leu Leu Thr Ala Ala Gln Trp Asp Phe Gly Leu Tyr Phe Ile Gly Phe Phe Leu Leu Thr Ile Asp Arg Tyr 125 Arg Tyr Ala Leu Lys Ala Arg Thr Val Ile Thr Trp Val Val Ala Val Phe Thr Arg Ser Gln Lys Glu 170 Find Tyr 185 Gln Tyr 186 Yal Ile Val Ile Leu Gly 200 Val Ile Cys Tyr Ser Gly Ile Asn Glu Lys Lys Arg His Arg And Ile Val Tyr Phe Leu Phe Leu Leu Asn Thr Phe Gln Glu Ser Ser Asn Arg Leu Asp Gln Gly Met Thr His Cys Cys Ile	Leu Glu Ser Met Thr Asp Ile Tyr 65 Asp Leu Phe Phe Leu Leu Thr Val Ala Ala Gln Trp Asp Phe Gly Asn Leu Tyr Phe Ile Gly Phe Phe Ser Leu Leu Thr Ile Asp Arg Tyr Leu Ala Leu Lys Ala Arg Thr Val Thr Ile Thr Trp Val Val Ala Val Phe Phe Thr Arg Ser Gln Lys Glu Gly His Phe Pro Tyr Ser Gln Tyr Gln Leu Lys Ile Val Ile Leu Gly Leu Val Ile Cys Tyr Ser Gly Ile Leu Asn Glu Lys Lys Arg His Arg Ala Asn Glu Lys Lys Arg His Arg Ala Leu Leu Asn Thr Phe Gln Glu Phe Ser Ser Asn Arg Leu Asp Gln Ala Gly Met Thr His Cys Cys Ile Asn	Leu Glu Ser Met Thr Asp Ile Tyr Leu 65 Asp Leu Phe Phe Leu Leu Thr Val Pro 80 Ala Ala Gln Trp Asp Phe Gly Asn Thr 95 Leu Tyr Phe Ile Gly Phe Phe Ser Gly 110 Leu Leu Lys Ala Arg Tyr Leu Ala 125 Ala Leu Lys Ala Arg Thr Val Thr Phe 140 Ile Thr Trp Val Val Ala Val Phe Ala 175 Phe Thr Arg Ser Gln Lys Glu Gly Leu 170 His Phe Pro Tyr Ser Gln Tyr Gln Phe 185 Leu Lys Ile Val Ile Leu Gly Leu Val 200 Val Ile Cys Tyr Ser Gly Ile Leu Lys Asn Glu Lys Lys Arg His Arg Ala Val Met Ile Val Tyr Phe Leu Phe Trp Ala 245 Ser Ser Asn Arg Leu Asp Gln Ala Met Gly	Leu Glu Ser Met Thr Asp Ile Tyr Leu Leu 70 Asp Leu Phe Phe Leu Leu Thr Val Pro Phe 85 Ala Ala Gln Trp Asp Phe Gly Asn Thr Met 100 Leu Tyr Phe Ile Gly Phe Phe Ser Gly Ile 115 Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile 130 Ala Leu Lys Ala Arg Thr Val Thr Phe Gly 145 Ile Thr Trp Val Val Ala Val Phe Ala Ser 160 Phe Thr Arg Ser Gln Lys Glu Gly Leu His 175 His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp 185 Leu Lys Ile Val Ile Leu Gly Leu Val Leu 205 Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr 220 Asn Glu Lys Lys Arg His Arg Ala Val Arg 235 Met Ile Val Tyr Phe Leu Phe Trp Ala Pro 235 Leu Leu Asn Thr Phe Gln Gln Phe Phe Gly 265 Ser Ser Asn Arg Leu Asp Gln Ala Met Gln 280 Gly Glu Lys Phe Arg Asn Tyr Leu Leu Val 196 Gly Glu Lys Phe Arg Asn Tyr Leu Leu Val 196	Leu Glu Ser Met Thr Asp Ile Tyr Leu Leu Asn 76 Asp Leu Glu Ser Met Thr 65 Asp Ile Tyr Leu Leu Asn 77 Asp Leu Phe Phe Ro Leu Thr Val Pro Phe Trp 85 Phe Gly Asn Thr Met Cys 100 Asp 110 Asp 95 Phe Gly Asn Thr Met Cys 110 Asp	Leu Glu Ser Met Thr Asp Ile Tyr Leu Leu Asn Leu 65 Asp Leu Phe Phe Leu Leu Thr Val Pro Phe Trp Ala 80 Ala Ala Gln Trp Asp Phe Gly Asn Thr Met 100 Cys Leu 110 Phe Ile 110 Phe Phe Phe Ser Gly Ile Phe Phe 110 110 Phe Phe Ile Ileu Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His 130 Phe Phe Ile Thr Trp Val Val Ala Val Phe Ala Ser Cly Val Val Val Ile Thr Trp Val Val Info Phe Ileu Pro Info Phe Ileu Leu Lys Ala Arg Thr Val Phe Ala Ser Leu Pro Info Phe Thr Arg Ser Cln Lys Glu Cly Leu His Tyr Thr 175 Phe Phe Ileu Lys Ile Val Ile 200 Phe Phe Ileu Lys Ile Val Ile 200 Phe Phe Ileu Lys Ile Val Ile 200 Phe Phe Ileu Lys Ile Val Ile 235 Phe Phe Ileu Leu Lys Ile Val Tyr Phe Leu Phe Trp Ala Pro Ileu Leu Leu Leu Leu Asn Thr Phe Ileu Phe Phe Ileu Phe Phe Ileu Leu Asn Ileu Cys Ileu Asn Ileu Phe Phe Ileu Phe I	Leu Glu Ser Met Thr Asp Ile Tyr Leu Leu Asn Leu Ala 70 Asp Leu Phe Phe Leu Leu Thr Val Pro Phe Trp Ala His 80 Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys Leu Leu Tyr Phe Ile Gly Phe Phe Ser Gly Ile Phe Phe Ile 110 Leu Tyr Phe Ile Asp Arg Tyr Leu Ala Ile Val His Ala 130 Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr 145 Ile Thr Trp Val Val Ala Val Phe Ala Ser Leu Pro Gly 175 Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys 177 His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe 186 Leu Lys Ile Val Ile Leu Gly Leu Val Leu Pro Leu 200 Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg 230 Met Ile Val Tyr Phe Leu Phe Trp Ala Pro Tyr Asn Ile 260 Ser Ser Asn Arg Leu Asp Cys Cys Ile Asn Pro Ile Tyr Ala 280 Gly Met Thr His Cys Cys Cys Ile Asn Pro Ile Tyr Ala 295 Gly Glu Lys Phe Arg Asn Tyr Leu Leu Val Phe Phe Gly Ile Tyr Ala 295	Val Gly Asn Met Leu So Val The Leu Ite Leu Leu Leu Asn Cys Cln Leu Glu Ser Met Th Asp Ite Tyr Leu Leu Asn Leu Ala Ite Asp Leu Phe Phe Leu Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys Leu Thr Tyr Asp Phe Gly Asn Thr Phe Phe Phe Phe Asn Thr Met Phe Phe Phe Phe Asn Thr Phe Ite Ite Phe Phe Ite Ite Phe Phe Ite It	Val Gly Asn Leu Leu The Leu Leu Leu Leu Asn Leu Asn Leu Ann Leu Ala Asn Leu Ann Leu Ann Leu Ann Ann

RAW SEQUENCE LISTING PATENT APPLICATION US/08/466,343B

DATE: 12/17/96 TIME: 11:04:12

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Ile Ala Lys Arg Phe Cys Lys Cys Ser Ile Phe Gln Glu Ala Pro Glu Arg Ala Ser Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile Ser Val Gly Leu ᢀ (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 BASE PAIRS (B) TYPE: NUCLEIC ACID (C) STRANDEDNESS: SINGLE (D) TOPOLOGY: LINEAR (ii) MOLECULE TYPE: Oligonucleotide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: CGGAATTCCT CCATGGATTA TCAAGTGTCA (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 BASE PAIRS (B) TYPE: NUCLEIC ACID (C) STRANDEDNESS: SINGLE (D) TOPOLOGY: LINEAR (ii) MOLECULE TYPE: Oligonucleotide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: CGGAAGCTTC GTCACAAGCC CACAGATAT (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 BASE PAIRS (B) TYPE: NUCLEIC ACID (C) STRANDEDNESS: SINGLE (D) TOPOLOGY: LINEAR (ii) MOLECULE TYPE: Oligonucleotide